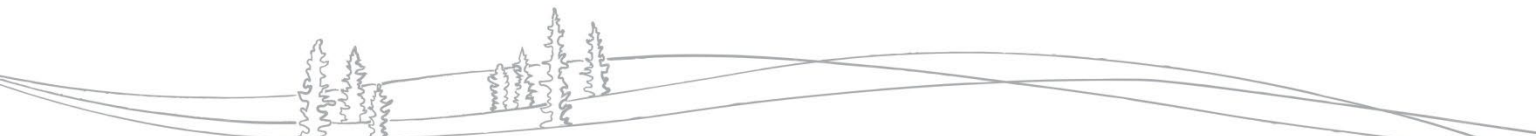




# GNWT INFRASTRUCTURE PLAN

INDUSTRY DAY

FEBRUARY 2022



Government of  
Northwest Territories

# Presentation Overview

- GNWT 2022/23 Infrastructure Acquisition Plan
  - Overview of Capital Estimates
  - Projects in Planning/Design
  - Fuel Services Projects
  - Airport Projects
  - Transportation Projects
  - Energy Projects
  - Strategic Corridor Projects
  - Municipal and Community Affairs/Communities
  - NWT Housing Corporation

***\*Project budgets in this presentation include all costs to deliver the projects such as planning, design, construction and close-out costs.***



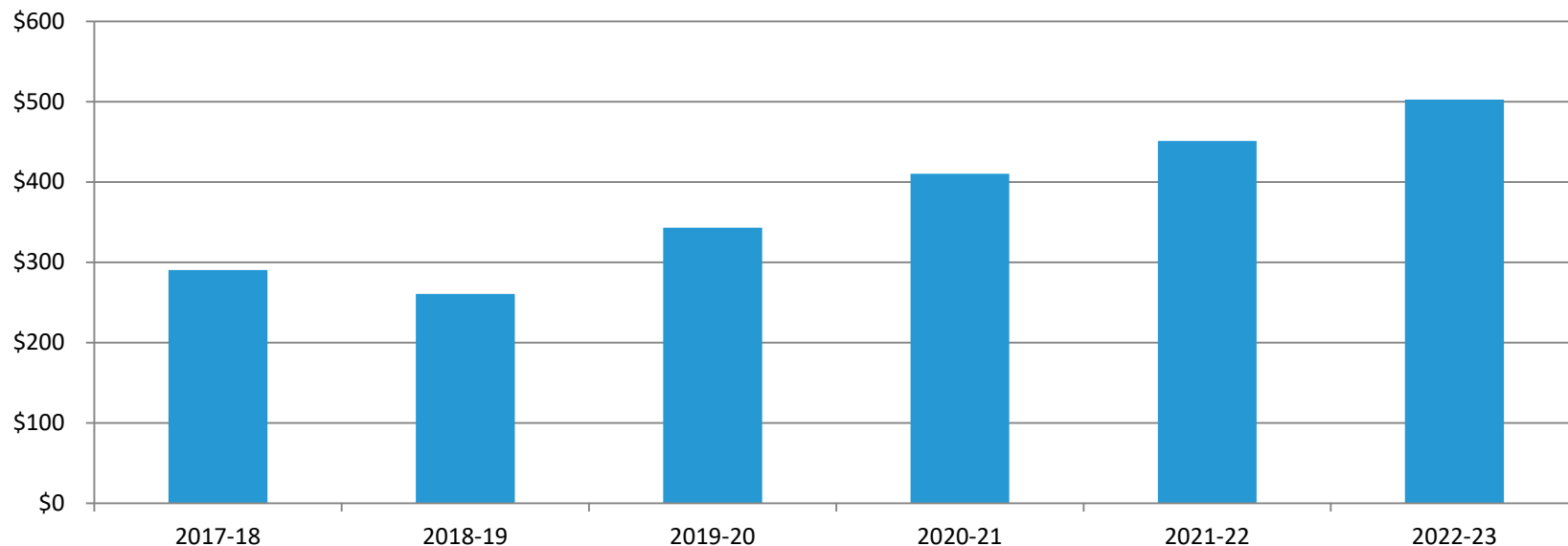
# GNWT Infrastructure Planning and Acquisition

- The GNWT's 2022-23 Infrastructure Acquisition Plan totals \$502.6M.
- The plan continues to leverage significant federal infrastructure dollars.
  - For copies of the 2022-23 Capital Estimates, reference the following GNWT website:
    - <https://www.fin.gov.nt.ca/en/resources/2022-2023-capital-estimates>
  - For GNWT Tendering and Contracting information, reference the following GNWT website:
    - <https://www.fin.gov.nt.ca/en/services/contracting>

# GNWT Capital Estimates

## Budget Trends \$M

Total Infrastructure Budget by Fiscal Year



# 2022-23 Capital Estimates

SUMMARY	
<b>LARGE CAPITAL</b>	<b>\$478.4M</b>
<b>SMALL CAPITAL</b>	<b>\$17.7M</b>
<b>IM/IT</b>	<b>\$6.5M</b>
<b>TOTAL</b>	<b>\$502.6M</b>

Large Capital Projects – budget of \$600,000 and above.

Small Capital Projects - budget from \$50,000 to \$600,000.

IM/IT – Information Management and Information Technology Projects.

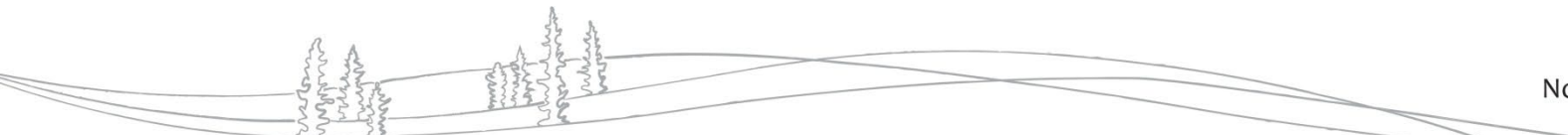


# 2022-23 Capital Estimates

SUMMARY BY DEPARTMENT	
LEG	\$0.40M
ECE	\$25.37M
ENR	\$2.11M
FIN	\$79.85M
HSS	\$49.61M
ITI	\$4.44M
INF	\$299.38M
JUS	\$1.48M
LANDS	\$0.23M
MACA	\$29.15M
NWTHC	\$10.63M
<b>TOTAL</b>	<b>\$502.65M</b>

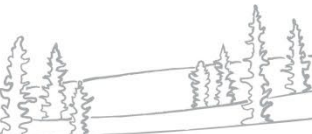


# Projects in Planning/Design



# Projects in Planning/Design

- **Yellowknife Wellness & Recovery Centre** – Design ongoing, Tender Target Summer 2022
- **Hay River Long Term Care** – Schematic Alternative completion target Spring 2022, followed by Design RFP with Tender Target Spring 2023
- **Inuvik Long Term Care** – Schematic Alternative completion target Spring 2022, followed by Design RFP with Tender Target in 2023
- **Fort Simpson Health Center and Long Term Care** - Planning start April 2022
- **Fort Smith Long Term Care** – Planning start April 2022
- **Fort McPherson Body Holding** - 2022/23
- **Déline Body Holding** - 2022/23
- **Inuvik Hospital Medical Device Reprocessing HVAC Upgrade** - 2022/23



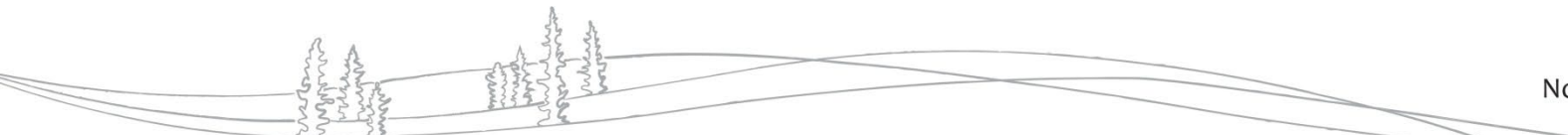


# Projects in Planning/Design

- **Colville Lake School** – Community led planning target completion Summer 2022
- **CJB Replacement, Behchokò** – Scope Definition in 2022 followed by planning start
- **Inuvik WARC Warehouse** – Design ongoing, Tender target for Spring 2022
- **Polytechnic University** – Facilities Master Plan completion target Spring 2022 followed by additional planning
- **Kaw Tay Whee School Kitchen Upgrade, Dettah** – 2022/23
- **Louie Norwegian School Barrier-free Access Upgrade, Jean Marie River** – 2022/23
- **Mezi Community School Barrier-free Access Upgrade, Whatì** – 2022/23
- **Colville Lake School Portables** – 2022/23
- **Inuvik Shell Lake ENR Offices** – Design RFP target for Spring 2023

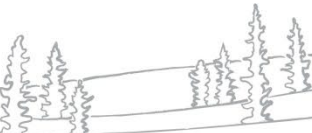


# Fuel Services Projects

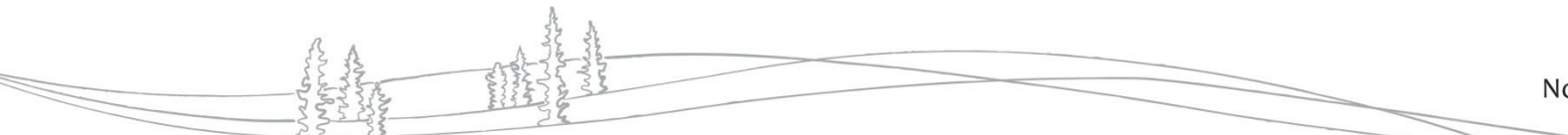


# Disaster Mitigation Adaptation Funding

- Increase to Bulk Fuel Storage Facilities
  - Location: Paulatuk, Ulukhaktok, Sachs Harbour and Tuktoyaktuk
  - Project Budget: \$29M
  - Scope:
    - Increase fuel storage capacity in coastal communities, which will mitigate the impacts of natural occurrences on the resupply of fuel to remote NWT communities.
    - Modernize and improve fuel storage facilities.
  - Current Status: Paulatuk, Ulukhaktok, Sachs Harbour sections in design with construction Tender Target of Winter 2022. Tuktoyaktuk section in planning stage.
  - Construction: Completion in 2027/28 (anticipated)



# Airport Projects

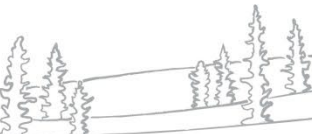


# Inuvik ATB Replacement

- Airport Air Terminal Building Replacement
  - Location: Inuvik Mike Zubko Airport
  - Project Budget: up to \$40M
- Scope:
  - Replacing the existing ATB with a new modern and accessible building.
  - Includes new tower.
  - Realignment of the access road to improve passenger drop off.
  - Thermosyphon foundation design to preserve permafrost.
- Current Status: In Design (finalizing foundation)
- Construction: Complete Fall 2025 (anticipated)

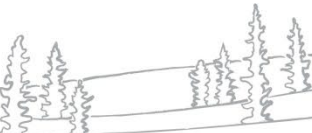
# Disaster Mitigation Adaptation Funding

- Airport Runway Improvements
- Location: Inuvik Mike Zubko Airport
- Project Budget: \$22M
- Scope:
  - These improvements will increase the resilience of surface structures at the Inuvik Airport from impacts of climate change and will address the following areas:
    - Widen Runway Safety Areas and Taxiway Embankments
    - Site Drainage
    - Select Paving and Repairs
- Current Status: In Construction (negotiated)
- Construction: Complete Fall 2023 (anticipated)



# Inuvik Runway Extension

- Airport Runway Extension
- Location: Inuvik Mike Zubko Airport
- Project Budget: up to \$150M
- Scope:
  - Extending and modernizing the runway will ensure the airport can meet changing operational demands and continue to provide for safe air operations.
  - 3000' Runway Extension with LED Lighting full length.
  - Relocation/Reconstruction of Navigational Aids.
  - Infrastructure Upgrades to TP312 5<sup>th</sup> Edition Standards.
- Current Status: In Construction (negotiated)
- Construction: Complete Fall 2025 (anticipated)



# ACAP Fort Smith Airport Surfaces Overlay

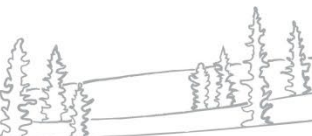
- Pavement overlay of all airport surfaces (Runway, Taxiways and Apron).
- Location: Fort Smith Airport
- Project Budget: \$15M (Airport Capital Assistance Program)
- Scope:
  - Asphalt rehabilitation of Runway 12/30 (30 m width), Taxiway A & C and Aprons 1 & 2 includes milling and repaving.
  - Includes granular production of asphalt aggregates.
- Current Status: In Design
- Construction: Complete Fall 2022



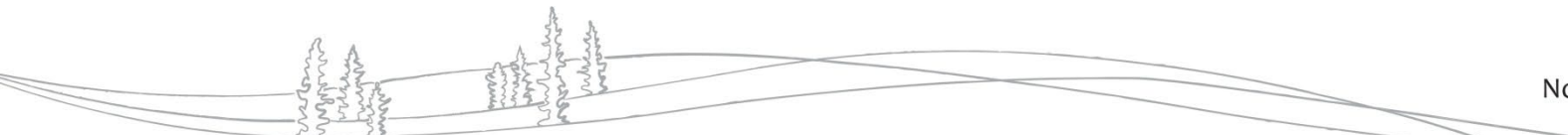


# ACAP Fort Simpson Airfield Electrical

- Replacement of Airfield Electrical System
- Location: Fort Simpson Airport
- Project Budget: \$2.8M (Airport Capital Assistance Program)
- Scope:
  - Replacing the existing airfield electrical system with new modern LED technology for runway, taxiways and apron.
  - Includes new Field Electric Center with regulators, power circuits, aircraft radio controlled lighting (ARCAL), etc.
  - Replacement of Precision Approach Path Indicator (PAPIs).
  - New Runway Threshold Identification Lights (RTILs) on Runway 32.
  - New Omni Direction Approach Lighting System (ODALS) on Runway 14.
  - New mandatory instructional signs at Taxiway A & B.
- Current Status: In Construction
- Construction: Complete Fall 2022



# Transportation Projects



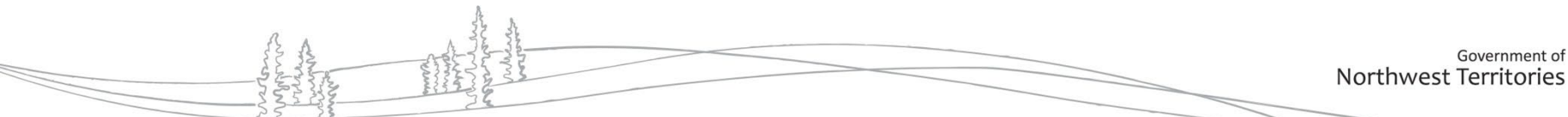
# 2022/23 Planned Works

HIGHWAY	WORK
Highway 1 (Mackenzie)	Rehabilitation work including embankment widening, drainage improvement, culvert replacement and chipseal – km 222-234 (multi-year contract-work in progress)
Highway 1 (Mackenzie)	Chipseal Overlay – km 70-116, 173-207, 375-471, Fort Simpson access road and Fort Simpson airport access road-public tender Feb/March 2022
Highway 3 (Yellowknife)	Rehabilitation work including surface repairs and chipseal – km 0-23 (multi-year contract-work in progress)
Highway 3 (Yellowknife)	Chipseal overlay – km 0-23 ( multi year contract awarded-work will resume in summer 22)
Highway 4 (Ingraham)	Rehabilitation work including dips repair, embankment widening, culvert replacement and chipseal – km 54.75-59.2 (multi-year contract-work in progress)
Highway 7 (Liard)	Rehabilitation work including embankment widening, aggregate production, right of way clearing, culvert replacement, base & sub-base construction and erosion protection – km 20-34 (multi-year contract-work in progress)
Highway 8 (Dempster)	Reconstruction (km 245-255), culvert replacement at km 9.2 and culvert repair at km 239.9
Highway 9 (Tlicho)	Substantially complete. Final completion by November 2022
Highway 10 (Inuvik-Tuk)	Reconstruction, rehabilitation and raising of low profile sections – km 22-29
Whati Access Road	Phase 1 (right of way clearing, material production and grading) - multi-year contract-work in progress and Phase 2 (embankment widening and culvert replacement) – km 0-13 in summer 2022
Liard Access Road	Embankment & Drainage improvements including resurfacing and chipseal – km 0-5: tender planned Mar 2022



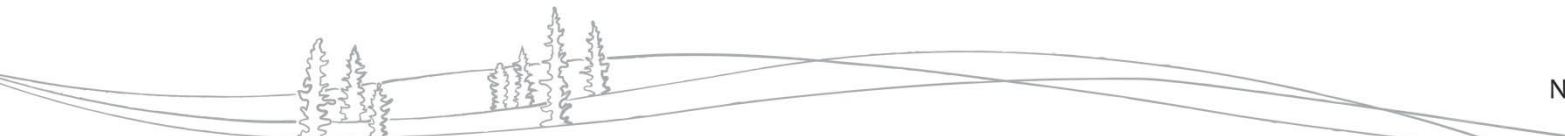
# 2022/23 Planned Works

HIGHWAY	WORK
Mount Gaudet Access Road	Regulatory review paused, start of construction delayed until at least Winter 2023
Prohibition Creek Access Road	Re-evaluation of project delivery opportunities, and funding options – Construction start delayed until at least Winter 2023
Various Gravel Roads	Calcium chloride application (multi-year contract awarded)
Various Highways	Line painting (multi-year contract awarded)
Various Highways	Crushing for 2023 chipseal program-Public tender in April/May 2022
Inuvik Highpoint access Road	Construction of Inuvik Highpoint access Road (6 Kms). Plan and design is complete and permitting is under process. ( work in progress)



# 2022/23 Planned Works

BRIDGES & BRIDGE-CULVERTS	PROJECT DESCRIPTION
Highway 1 (Mackenzie)	km 20.2 & 287.9 Bridge-culvert replacement – tender in fall 2022 km 260.9 Axle Handle bridge-culvert – replacement – engineering in progress km 277.5 Bouvier River bridge-culverts (2) – fish passage – engineering in progress km 295.2 Redknife River bridge-culverts (3) - replace with bridge - RFP engineering spring 2022 km 411.2 Jean Marie River Bridge – replacement – RFP engineering in spring 2022 km 687.2 Smith Creek Bridge – replacement – RFP engineering in spring 2022 km 692.0 Hodgson Creek Bridge – replacement – RFP engineering. Currently on hold km 746.5 Strawberry Creek arch bridge-culvert – rehabilitation tender in fall 2022 km 941.2 Great Bear River Bridge – regulatory permitting in progress, procurement summer 2023 km 1054.4 Oscar Creek Bridge – relocation – RFP engineering in spring 2022, construction 2023
Highway 3 (Yellowknife)	km 24.4 Deh Cho Bridge – cleaning, welding, LED lighting retrofit contracts in place km 243.8 Dehk'è Frank Channel Bridge – design-build negotiations in progress
Highway 7 (Liard)	km 176.6 Bridge-culvert – replacement – tender in 2022 kms 46.1, 63.8, 116.0, 131.4, 139.2, 145.7 Bridges - erosion protection – tender in spring 2022
Highway 8 (Dempster)	km 9.2 Bridge-culvert – replacement – tender in 2022 km 239.9 Bridge-culvert – repair – tender in 2022 km 266.1 Bridge-culvert - replacement – horizontal boring – tender fall 2022

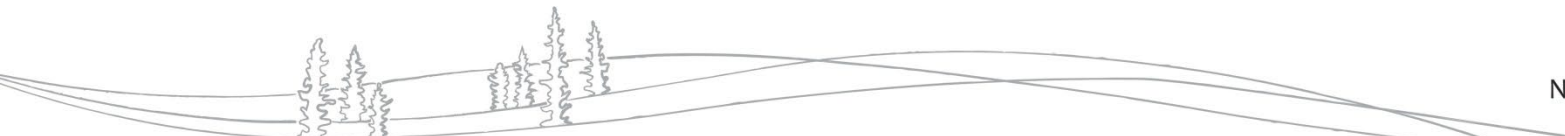


# Energy Projects



# 2022/23 Planned Works

PROJECT	WORK
Lutsel K'e Diesel Plant	Replacement of the existing diesel-electric plant. Construction initiated in 2021, anticipated to be completed by Fall 2022
Sachs Harbour Diesel Plant	Replacement of the existing diesel-electric plant. Modular plant and materials on site but construction delayed – anticipated to start in Spring 2022
Inuvik High Point Wind	Access road contract awarded, road work expected to begin in Winter 2022. Two RFP packages related to General Contractor being prepared for release – foundation + turbine erection and balance of plant
Fort Providence / Kakisa Transmission Line	Project preparing to enter regulatory phase in Spring 2022. Procurement process to be initiated in Fall 2022 or Winter 2023 once Land Use Permit and other authorizations are received



# Strategic Corridor Projects





# Taltson Hydro Expansion

## Taltson Hydro Expansion

- \$18M funded by Crown-Indigenous Relations and Northern Affairs Canada (2019/20 – 2022/23).

Phase 1 - Add 60MW of generation capacity, connect two NWT hydro systems.

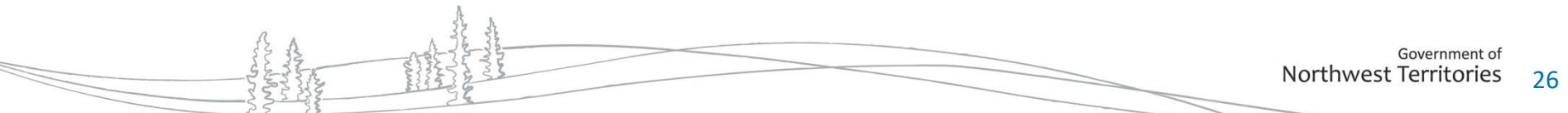
Phase 2 - Provide clean energy to the Slave Geological Province and resource sector.

Phase 3 - Connect the NWT electrical grid to the rest of Canada.



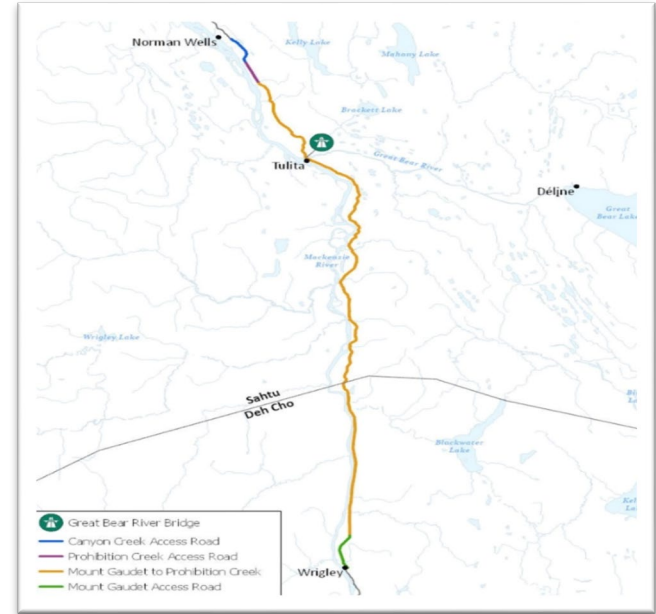
# Taltson—Anticipated Timelines

Milestone	Indicative Timing
Business Case Completion	Early 2022
Community Engagement and Traditional Knowledge	2020 - 2030
Technical Investigations and Tender Documentation Preparation	2020 - 2023
Environmental and Regulatory Approvals	2022 - 2024
Commence Construction	Est. 2025/26
Plant Commissioned	Est. 2029/30



# Mackenzie Valley Highway (MVH)

- Proposed two lane, 321 km all-season road between Wrigley and Norman Wells.
- \$140 million funded under National Trade Corridors Fund for:
  - MVH Environmental Assessment and Engineering Studies.
  - Construction of the Great Bear River Bridge.
  - Construction of the Mount Gaudet Access Road.
- \$20 million funded under Investing in Canada Infrastructure Plan for construction of Prohibition Creek Access Road.



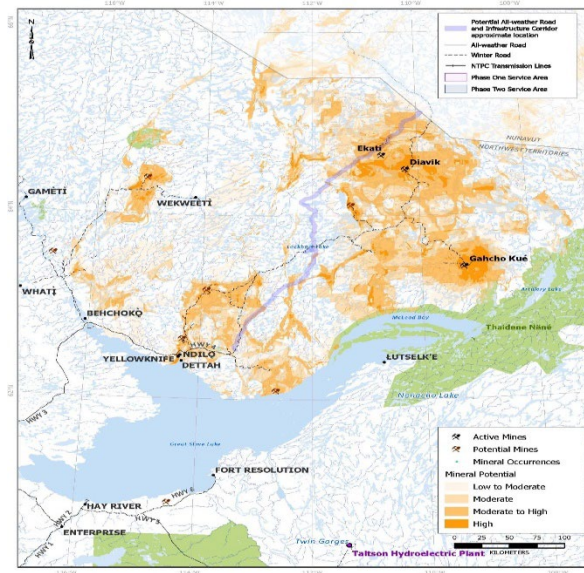
# MVH – Anticipated Timelines and Next Steps

- Regulatory approvals Great Bear River Bridge (2022 – 2023)
- Construction of Great Bear River Bridge (2023 – 2026)
- Construction of Prohibition Creek Access Road (2023 – 2025)
- Completion of Developers Assessment Report for MVH Environmental Assessment (2022)
- Regulatory approvals Mount Gaudet Access Road (2022 – 2023)
- Construction of Mount Gaudet Access Road (2023 – 2024)



# Slave Geological Province Corridor (SGPC)

- 413 km all-season road from Tibbitt Lake to Nunavut Border.
- \$40 million funded under Transport Canada's National Trade Corridors Fund.
  - Environmental Assessment and Planning Studies.
- \$50 million funded under Transport Canada's National Trade Corridors Fund.
  - Replacement of Frank Channel Bridge.



# SGPC – Anticipated Timelines and Next Steps

- Engagement and consultation with Indigenous governments and organizations (Ongoing)
- Completion of Environmental Assessment Initiation Package for LASR (2024)
- Regulatory approvals for LASR (2024 – 2025)
- Regulatory approvals for Frank Channel Bridge (2022-2023)
- Construction of Frank Channel Bridge (2023 – 2025)

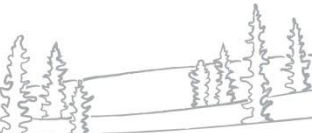


# Municipal and Community Affairs/Communities



# Community Infrastructure Funding

- Annual Funding:
  - Community Public Infrastructure (CPI) Funding - \$29M – Proposed for 2022-2023.
  - Gas Tax Funding (Federal) - \$16.7M.
- Funds are distributed to communities via a formula and communities manage their own priorities.



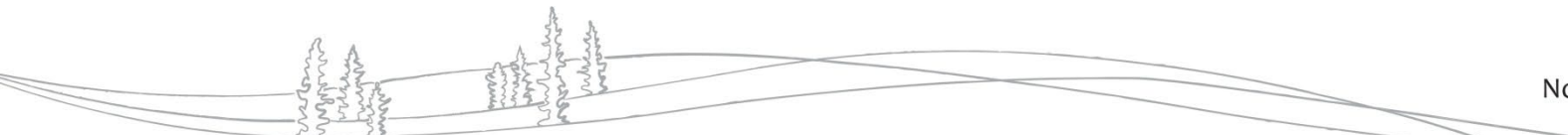


# Application Based Infrastructure Funding

- Federal Funding:
  - Small Communities Fund (SCF) - \$38.4M.
    - Community Projects have already been approved.
  - Investing in Canada Infrastructure Program (ICIP) - \$120M.
    - Targeted categories are roads, solid waste and cultural spaces.
    - Community Projects have already been approved.
- Approved projects are listed on Infrastructure Canada's website at:  
<https://www.infrastructure.gc.ca/gmap-gcarte/index-eng.html>



# NWT Housing Corporation



# Northwest Territories Housing Corporation Investments

## **Proposed 2022/23 Major Capital Plan \$10.625 million (M):**

- \$10 M Modernization & Improvement (M&I): housing repair projects across the NWT.
- \$625,000 vehicle replacements.

## **Other Planned Investments:**

- \$6.2 M to support NWT housing partnership projects (Community Housing Support Initiative and National Co-Investment Fund).
- \$6 M homeownership repair programs.
- \$4.5 M fuel tank replacements, minor repairs of owned assets, demolitions and hazardous assessments.



# Other INF Programs

## SUMMARY

INF			
	<b>CARF (\$3.8M)</b>	<b>Jean Wetrade School – Biomass, Mezi School - LED Upgrade, Chief Julius School - Controls and Lighting Upgrade, MTS Maintenance Garage- Biomass, Liard Ferry Garage – Envelope upgrade and Biomass, Charles Yonin School – LED Lighting and Heating Controls, Echo Dene School – LED Upgrades, NSCF – LED lighting and Energy Upgrades</b>	<b>All Regions</b>
	<b>DEF. MTCE (\$5M)</b>	<b>24 projects envelope upgrades, window/door replacements. flooring replacements, washroom retrofits, fire alarm replacements</b>	<b>All Regions</b>

# Small Capital Projects

## SUMMARY

**\$16M split between seven departments for projects across all regions.**

**Projects which are estimated to cost between \$50,000 & \$600,000.**



# GNWT Contract Event Opportunities

- The GNWT [Contract Event Opportunities](#) website is an interactive system that allows vendors to download and bid on contracting opportunities online. Vendors can also sign up for notifications of new contracting event opportunities as they arise in specific areas of interest.
- Assistance and advice for using the Contract Event Opportunities website is available through the [GNWT Contract Event Opportunities Help](#) site.
- For assistance with the website, contact: [samhelpdesk@gov.nt.ca](mailto:samhelpdesk@gov.nt.ca)
- For procurement questions about a specific event, contact: [psstenders@gov.nt.ca](mailto:psstenders@gov.nt.ca)



# Questions?

**Department of Infrastructure (INF)**

**Mark Cronk, Director, Design & Technical Services**

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**Department of Municipal & Community Affairs (MACA)**

**Olivia Lee, Manager, Asset Management**

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**Scott Reid, Director, Infrastructure Services**

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